

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 99.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-012363**Date Inspected:** 29-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC) Chanxing Island**Location:** Shanghai, China**CWI Name:** N/A**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG Segment 8CE**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance Inspector (QA), Vibin Kumar Selvanayaham, was present during the times noted above for observations relative to the work being performed.

Magnetic Particle Testing (MT) - Document No's: 005144

This QA inspector performed MT of approximately 100% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The members are identified as OBG Segment 8CE. The weld designations reviewed are as follows:

1. SSD16A-PP68-003
2. SSD17A-PP69-004
3. FB024-002-093
4. DP310-040, 045, 050, 053, 058, 061
5. DP337-001-081, 086, 091, 094, 099, 102, 107, 110
6. DP364-100, 105, 110, 113, 118, 121, 126, 129, 134, 137
7. DP391-100, 105, 110, 113, 118, 121, 126, 129, 134, 137
8. DP418-100, 105, 110, 113, 118, 121, 126, 129, 134, 137
9. DP445-100, 105, 110, 113, 118, 121, 126, 129, 134, 137
10. DP472-100, 105, 110, 113, 118, 121, 126, 129, 134, 137
11. DP337-002-081, 086, 091, 094, 099, 102, 107, 110
12. DP499-062, 067, 072, 075, 080, 083

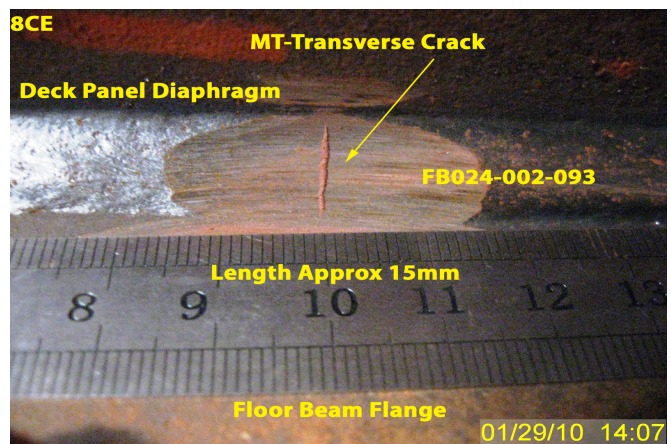
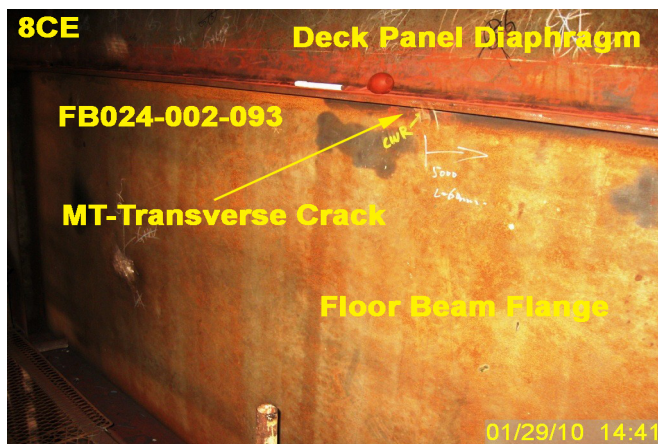
WELDING INSPECTION REPORT

(Continued Page 2 of 2)

13. CSD2-PP67.5-045, 046, 049~064, 069~078
14. CSD4-PP68-048, 050, 052, 056, 058, 023, 025, 027, 029, 007~012, 019
15. CSD5-PP69-044, 072, 082, 086, 088, 090, 092, 110~115, 119, 121

Description of Incident: During random Quality Assurance Visual review of welds located on segment 8CE, this Quality Assurance Inspector (QA) discovered 15mm long Transverse Indication in Floor beam Web to Flange weld. The indication were discovered visually and confirmed by Magnetic particle Testing (MT) by Caltrans QA. The weld is identified as FB024-002-093 and Indication from "Y" location is 5000mm. The Panel Point number is identified as PP69 on OBG Segment 8CE. This weld is designated as Seismic Performance Critical Member (SPCM) and ZPMC Quality Control Personnel have performed 25% Magnetic Particle Testing of this weld. For further information, please see the attached pictures.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Kumar,Vibin	Quality Assurance Inspector
Reviewed By:	McClendon,Timothy	QA Reviewer